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ENERGY FACILITY SITE EVALUATION COUNCIL

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Mr. Allen Fiksdal
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Subject: Sumas-2 DEIS

Using the information on pages 3.12-6&7, I am unable to validate several issues about the proposed transmission lines connecting Sumas-2 to The Power Grid.

Starting with the ending paragraph on page 3.12-6, I am unable to validate the statements that the 115kV line to Bellingham will carry 1,470 **amps per phase**, and the 115kV line to Custer will carry 1,665 **amps per phase**. These are described elsewhere to be 3 phase lines indicating they will carry a total of 9,405 amps at 115,000 Volts = 1,081.575MW. With a plant capacity of 660MW these two transmission lines are questionably 63% over built. 1

Is this correct?

As I reread the Sumas-2 DEIS, I then noticed on the same page, in paragraphs above these questioned details, that the transmission line to BC Hydro's, Clayburn sub-station is to carry 1,570 amps at 230kV, thus delivering 361.1MW of power, with no mention of "amps per phase." 2

Is this correct?

I consulted several sources and with local power experts who told me, "Most likely the reference of amps per phase is incorrect." If that is true, the two transmission lines through Whatcom County will only carry just under 50%, while the line to Clayburn will carry just over 50%, for a total of 721MW, about 110% of the 660MW plant capacity. 3

Is this correct?

As I reread these pages about the three transmission lines I became troubled about the references to "loop-flow," noting the transmission lines need to be "radial." The DEIS gives details of which lines will carry power from which source within the power plant. Should it be true the reference to amps per phase on page 3.12-6 is incorrect, thus all three transmission lines are needed to deliver Sumas-2's 660MW of power to the grid, Sumas-2 would simultaneously be connected to the power grid at three sub-stations. I find no explanation how "loop-flow" on the Sumas-2 transmission lines will be managed? 4

Please clarify and explain!

Sincerely

Allen Wilhite